ABSTRACT

A radio transmission apparatus capable of supressing peak power without causing deterioration in throughput and degradation in transmission efficiency in multicarrier communication. In this apparatus, a coding section (11) codes transmission data, a modulation section (12) modulates the coded data to generate a symbol, an assigning section (13) assigns the symbol to one of a plurality of subcarriers constituting a multicarrier signal, a changing section (15) change the phase of each of the plurality of subcarriers within a range that does not cross a decision boundary for signal points on an IQ plane, and an IFFT section (16) generates a multicarrier signal by inverse fast Fourier transform.